

Quick Use and Setup Guide

Rear-projection
HDTV Monitor

Let's make things better.

PHILIPS

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As an Energy Star® Partner, Philips Consumer Electronics has determined this product meets the Energy Star® guidelines for energy efficiency. Energy Star® is a U.S. registered mark. Using products with the Energy Star® label can save energy. Saving energy reduces air pollution and lowers utility bills.

IMPORTANT

This owner's manual is used with several different television models. Not all features (and drawings) discussed in this manual will necessarily match those found with your television set. This is normal and does not require that you contact your dealer or request service.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR EXCESSIVE MOISTURE.



HOOKING UP THE TV

BEST VIEWING

The major benefit of this projection television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimal spot for viewing.

NOTE: Be sure to allow a free flow of air to and from the perforated back cover of the set.

To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot—for example, in direct sunlight or near a heating appliance.

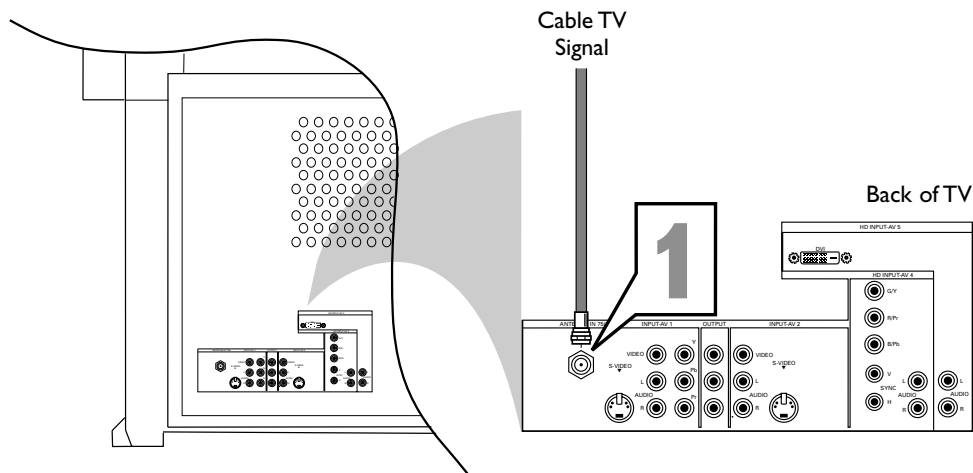
Magnetic fields, such as those of external speakers, may cause the picture to distort if the speakers are placed too close to the television. Move the magnetic field source away from the TV until there is no picture distortion.

CABLE TV

This connection WILL supply Stereo sound to the TV.

- 1 Connect the cable TV signal to the ANTENNA IN 75Ω jack on the back of the TV.

NOTE: Refer to the sections on TUNER MODE and AUTO PROGRAM on page 4 of this guide. Set TUNER MODE to the CABLE option. Run AUTO PROGRAM to store all available cable channels in the TV's memory.

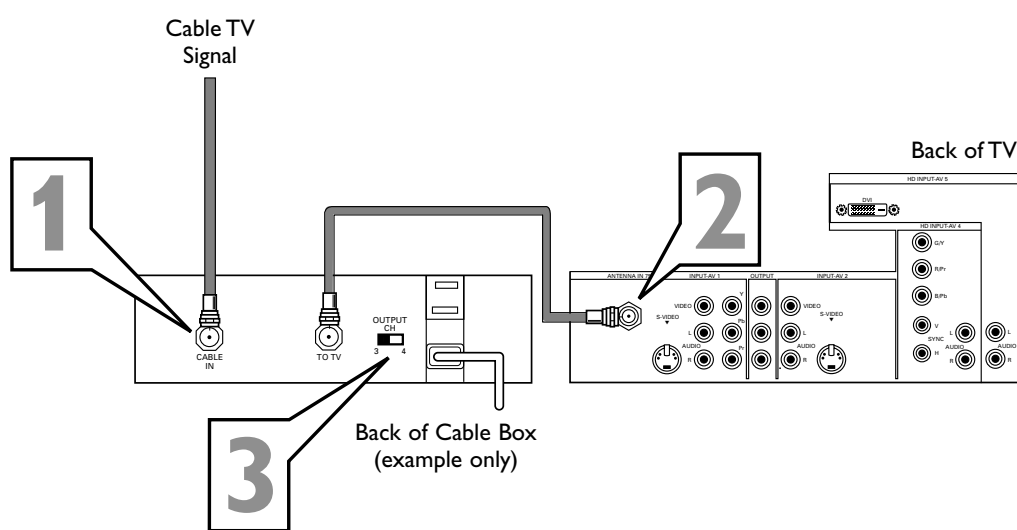


CABLE BOX WITH RF IN/OUT

This is for example purposes only. The back of your cable box may be labeled somewhat differently.

This connection WILL NOT supply stereo sound to the TV.

- 1 Connect the cable TV signal to the CABLE IN jack on the back of the cable box.
- 2 Connect a coaxial cable (not supplied) to the TO TV jack on the back of the cable box and to the ANTENNA IN 75Ω jack on the back of the TV.
- 3 Be sure to set the Output Channel switch on the back of the cable box to CH 3 or 4, then tune the cable box on the TV to the corresponding channel. Once tuned, change channels at the cable box, not the TV.

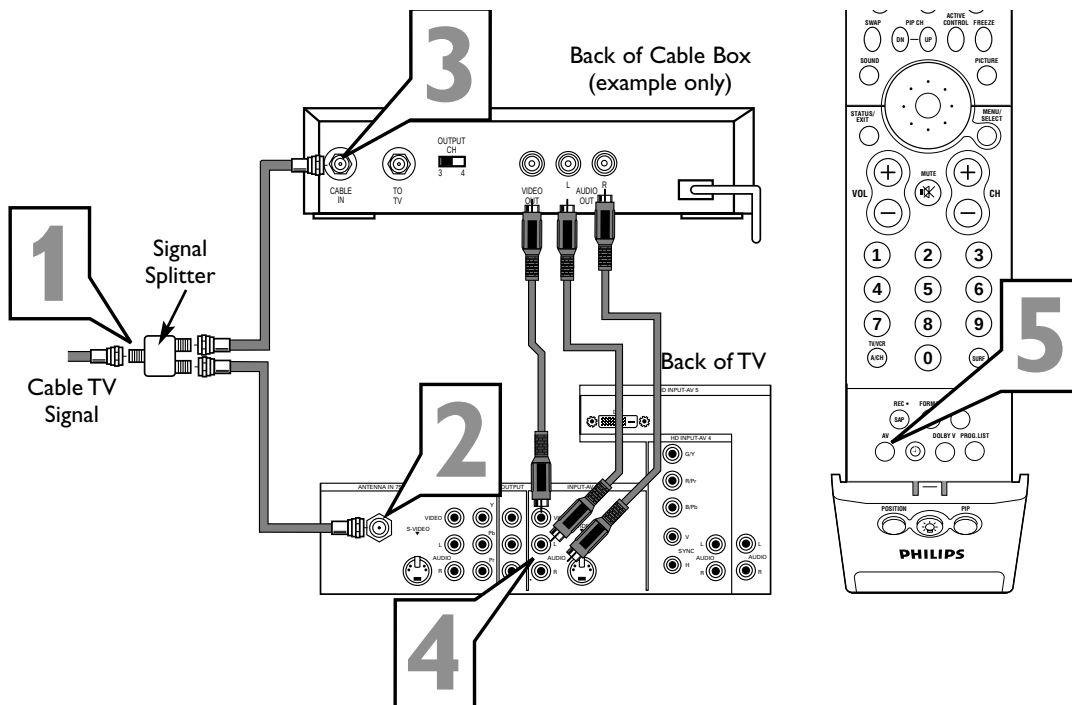


CABLE BOX WITH A/V OUTPUTS

This is for example purposes only. The back of your cable box may be labeled somewhat differently.

This connection MIGHT supply stereo sound to the TV. Check with your cable TV company.

- 1 Connect the incoming cable TV signal to a signal splitter.
- 2 Connect a coaxial cable to a connector on the signal splitter and to the ANTENNA IN 75Ω jack on the back of the TV.
- 3 Connect a coaxial cable to a connector on the signal splitter and to the CABLE IN jack on the back of the cable box.
- 4 Connect A/V cables to the VIDEO and AUDIO L and R outputs on the back of the cable box and to the INPUT-AV 2 VIDEO and corresponding AUDIO L and R jacks on the back of the TV.
- 5 Plug in the cable box and TV and turn them on. Then, while pointing the TV remote at the TV, press the AV button repeatedly until AV2 is selected. This will allow the viewing of programs through the cable box.





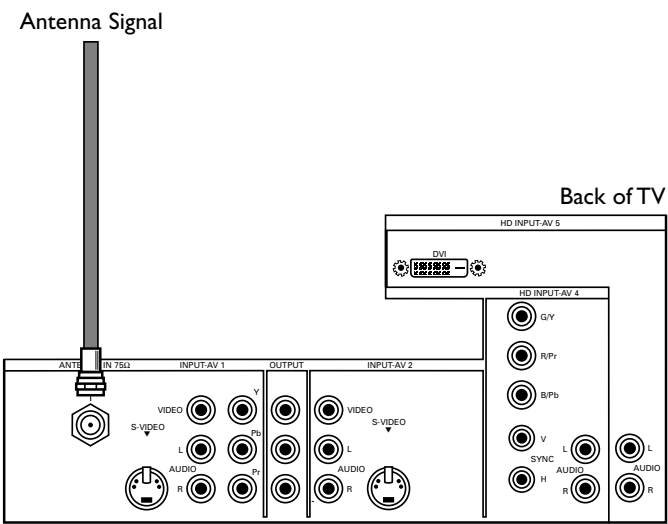
HOOKING UP THE TV

ANTENNA TV

This connection WILL supply stereo sound to the TV.

Connect the antenna signal to the ANTENNA IN 75Ω jack on the back of the TV.

NOTE: Refer to the sections on TUNER MODE and AUTO PROGRAM on page 4 of this guide. Set TUNER MODE to the ANTENNA option. Run AUTO PROGRAM to store all available cable channels in the TV's memory.



OPERATING THE TELEVISION AND REMOTE CONTROL

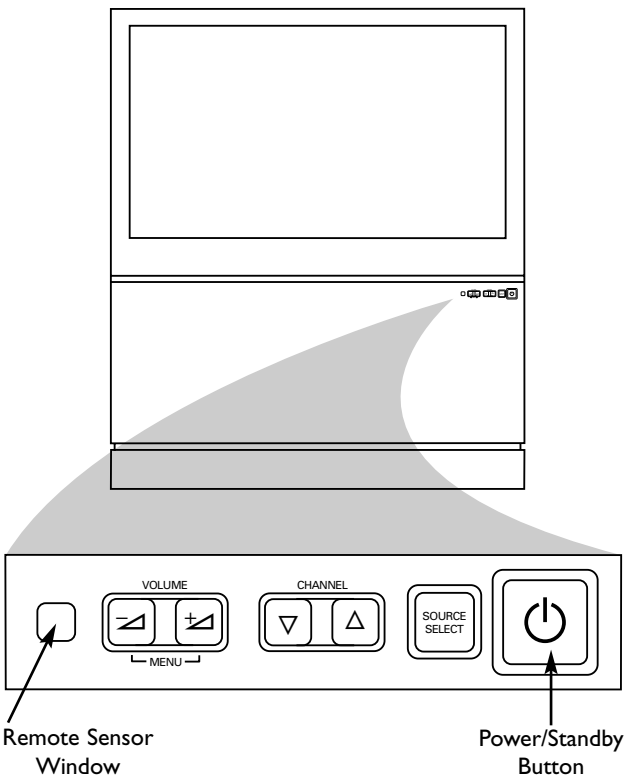
TELEVISION

USING THE TV BUTTONS

Should your remote control be lost or broken, you can still change some of the basic picture and sound settings with the buttons on the TV. Follow the steps below to familiarize yourself with the functions of the TV buttons.

- 1 Press **POWER/STANDBY** to turn the TV on (or off). Allow about 10 seconds for the TV to power on.
- 2 Press the **VOLUME + or –** buttons to decrease or increase the sound level.

Press the VOLUME + and – buttons simultaneously to display the on-screen menu. After the menu appears, use these buttons to enter submenus and make selections or adjustments. (Use the CHANNEL buttons to move up and down in the menu or submenus.) Press both VOLUME buttons simultaneously to back out of the on-screen menus.
- 3 Press **SOURCE SELECT** to choose from among the signal inputs you have connected to the TV.
- 4 Press the **CHANNEL** buttons to select TV channels.



HELPFUL HINT

You can press any of the buttons on the front of the TV to turn the TV on, but you must press the Power/Standby button to turn the set off.

REMOTE CONTROL

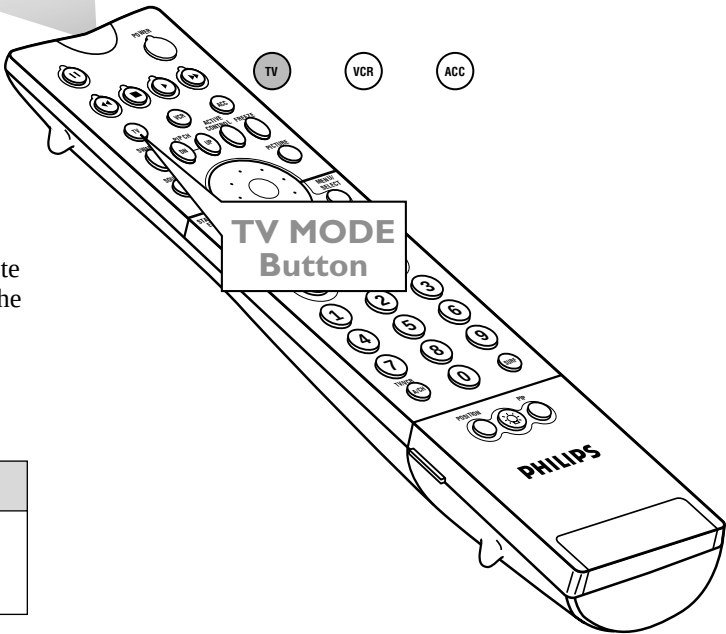
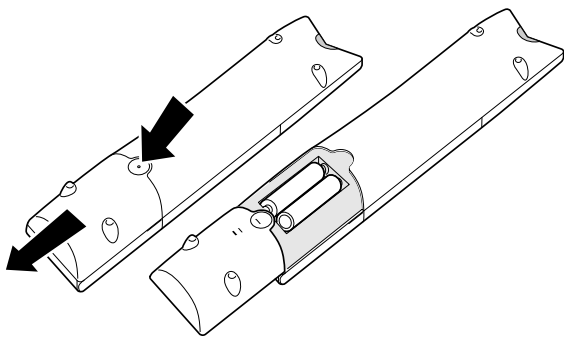
INSTALLING BATTERIES

To load the supplied batteries into the remote, follow these steps.

- 1 Gently press and hold the indentation on the back of the remote and slide the battery cover off the remote.
- 2 Place the two “AA” size batteries in the remote's battery case. Ensure that the (+) and (–) ends of the batteries line up correctly with the (+) and (–) inside the case.
- 3 Slide the battery cover back into place.

POINTING THE REMOTE

Press the TV mode button on the remote to ensure that the remote sends its commands to the TV. When operating the remote control, point the remote toward the remote sensor window on the TV.



BATTERY USAGE CAUTION

To prevent battery leakage that may result in injury to you or damage to the remote control:

- Install ALL batteries correctly, + and –, as marked on the unit.
- Do not mix batteries (OLD and NEW or CARBON and ALKALINE, etc.)
- Remove batteries when the remote control is not used for a long time.

Do not take apart, heat, or put batteries in fire.

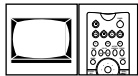
HELPFUL HINTS

- Be sure to point the remote toward the sensor window on the TV or accessory device you wish to operate.
- Press the correct mode button for the device: TV, VCR, ACC (for accessories other than VCRs).
- Be within about 30 feet (10 meters) of the TV or accessory device you wish to operate.
- Avoid dropping the remote on hard surfaces.
- Do not use harsh chemicals to clean the remote. Use only a soft, lightly moistened cloth.

✓ CHECK IT OUT

You can set up your TV remote control to work with accessory devices such as VCRs, DVD players, and cable converter boxes. See pages 18–23 in the *Directions for Use* manual.

OPERATING THE TELEVISION AND REMOTE CONTROL



REMOTE CONTROL

VCR control buttons

Press to pause, rewind, stop, play, or fast forward a videotape.

TV • VCR • ACC

(Mode buttons) Press to send remote signals to either the TV, VCRs, or other accessory devices such as cable TV converters, satellite receivers, DVDs, or laser disc players. (You may need to program the remote to work accessory devices. See pages 18–23 in the *Directions for Use* manual that came with your TV.)

PIP buttons: SWAP, PIP CH DN/UP, FREEZE

Press to operate the Picture-in-Picture (PIP) features. See page 7 in this publication for more information on using these buttons.

Sound

Press to select an AutoSound™ control. (See page 25 in the *Directions for Use* manual.) Choose from three factory-set controls—Voice, Music, and Theatre—and a Personal control that you set according to your own preferences through the on-screen Sound menu. The three factory-set controls will tailor the TV sound to enhance the type of program you are watching.

Status/Exit

Pressing the button once shows the current channel number, name (if set), time (if set), Sleep Timer setting, and sound setting (stereo, mono, SAP, or mute). Pressing the button twice shows the current AutoLock™ settings. Pressing the button once when an on-screen display is showing removes the on-screen display.

Cursor Ring

Up/Down: allows you to select the next or previous menu item in the menu. Left/Right: allows you to access the submenus and adjust the settings. When no on-screen displays or menus are present, use the Cursor Ring Left/Right to select a picture format for a video source connected to the ANTENNA, AV1, CVI, AV2, or AV3 (side panel inputs) on the TV.

Volume +/-

Press to adjust the TV sound level.

Number Buttons

Press to select TV channels. When selecting single-digit channels, press the number of the desired channel. The TV will pause for a few seconds and then tune to the selected channel.

TV/VCR

Press while in VCR mode to view the playback of a videotape. Press again to return to TV mode.

A/CH

Press to alternate between the currently viewed channel and the previously viewed channel.

Rec ●

Press this button simultaneously with the ► button when in VCR mode to record.

SAP

Press to select between main sound and SAP (Second Audio Program) when you tune to a program offering SAP. (See page 37 in the *Directions for Use* manual.)

AV

Press repeatedly to view materials from any accessory devices you have connected to the TV's input jacks. (See page 24 in the *Directions for Use* manual.)

Clock

Press to access the on-screen Timer menu, where you can set the time for the TV's clock or set the TV's Timer features, such as channel switchover, power on set, and power off set. (See page 5 of this publication for setting the time manually. See pages 39–43 in the *Directions for Use* manual for information on using the TV's Timer feature.)

Position

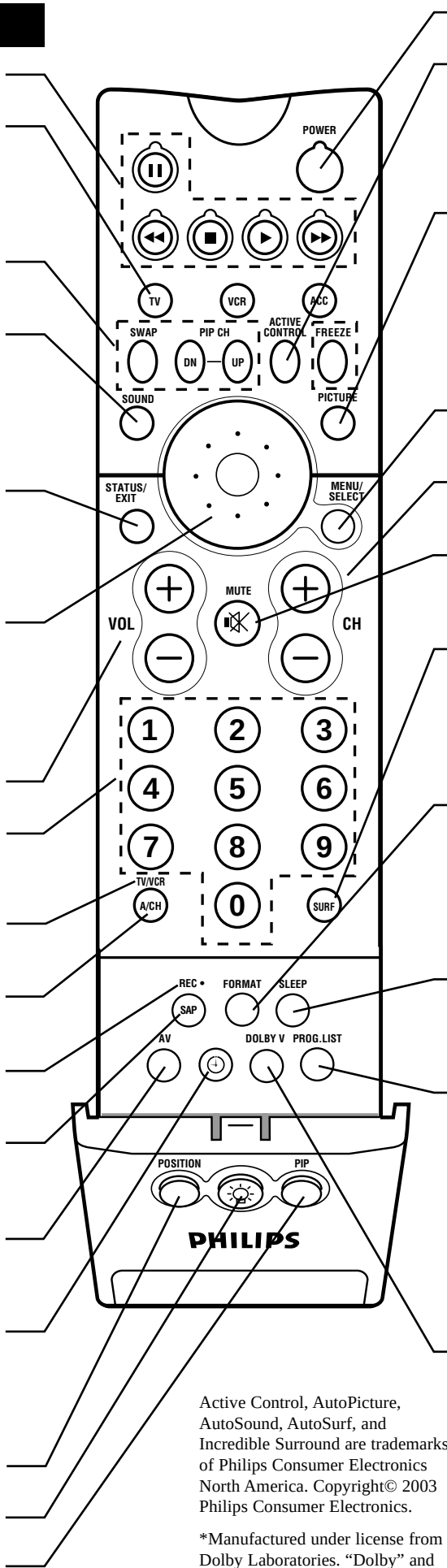
Press to move the PIP picture to any of the four corners of the screen.

Back Light button

Press to light the buttons on the remote control.

PIP

Press to turn PIP (picture-in-picture) on or off or control the size of the PIP window. (See pages 6 and 7 of this publication for more information on PIP.)



Power

Press to turn the TV on or off.

Active Control™

Measures and corrects all incoming signals to provide the best picture-quality settings. (See page 56 in the *Directions for Use* manual.) Press to turn Active Control™ on or off. When Active Control™ is on, it automatically and continuously controls Sharpness and Noise Reduction settings.

Picture

Press to select an AutoPicture™ control. Choose from four factory-set controls—Movies, Sports, Weak Signal, and Multimedia—and a PERSONAL control that you set according to your own preferences through the on-screen Picture menu. (See page 26 in the *Directions for Use* manual.) The four factory-set controls will enhance the TV picture according to the particular type of program you are watching. It may also be used to enhance pictures with weak signals.

Menu/Select

Press to display the on-screen menu. Press to return to a higher menu level.

Channel +/-

Press to select channels in ascending or descending order or cycle through the signal inputs.

Mute

Press to turn the TV sound off. To restore the sound to its previous level, press the button again. (See pages 17 and 53 in the *Directions for Use* manual.)

Surf

Press to select previously entered channels. With the TV's AutoSurf™ control, you can place up to 10 favorite channels or sources in memory. Then by pressing the Surf button, you can quickly view the selected channels. (See page 27 in the *Directions for Use* manual that came with the TV to learn how to select a series of your favorite channels using the Surf button.)

Format

Press to select a picture-format mode for a video source connected to the ANTENNA, AV1, CVI, AV2, or AV3 (side panel) inputs. Each press of the button selects a different mode—4:3, EXPAND 4:3, PANORAMA, WIDE SCREEN, or AUTO. Control the picture format of a video source connected to the HD inputs (AV4 or AV5) with the HD set-top box or progressive-scan-capable DVD player providing the video source.

Sleep

Press to set the TV to automatically turn itself off after a period of time. Choose 15, 30, 45, 60, 90, 120, 180, or 240 minutes before the TV will automatically turn off. (See page 29 in the *Directions for Use* manual.)

Program List

Press to display a list of channel numbers and their names. (See the "Tuner Mode," "Auto Program," "Channel Edit," and "Name" sections on pages 4–6 in this guide for setup.) Each channel will appear as a selectable menu item. The current channel will be highlighted as default. Five channels will be listed on screen at one time. Press the Cursor Ring up or down to scroll the list and and highlight a channel. Press the Cursor Ring right to tune to the highlighted channel. Channels marked "Skipped" in the Channel Edit control will not appear in the list. Each channel that is being blocked by AutoLock™ will appear with a padlock icon to indicate that the channel is not viewable. (See page 28 in the *Directions for Use* manual.)

Dolby V

Press to select various factory surround sound listening modes.

Dolby* Virtual (Virtual Dolby Surround) (with Virtual Dolby Surround signals)

Dolby Virtual uses two speakers to simulate the surround effect produced by a multichannel system.

Incredible Surround™

- In **Stereo** sound mode—when Incredible Surround™ is turned on—it seems as though the loudspeakers are spread farther apart from each another.
- In **Mono** sound mode—when Incredible Surround™ is turned on—enables you to hear a spatial sound effect.

(See page 35 in the *Directions for Use* manual.)

ADJUSTING OR SETTING MENU OPTIONS

A menu is simply a list of options. You can adjust or set your TV's on-screen menu options by pressing buttons on the remote control. The following steps will familiarize you with how to use the remote control with the on-screen menu.

1 Press the TV mode button to ensure that the remote control is in TV mode.

2 Press the MENU/SELECT button to bring the menu to the screen. Then, as necessary, press the CURSOR RING DOWN or UP to highlight a menu option. Press the CURSOR RING RIGHT to enter the submenu for the option.

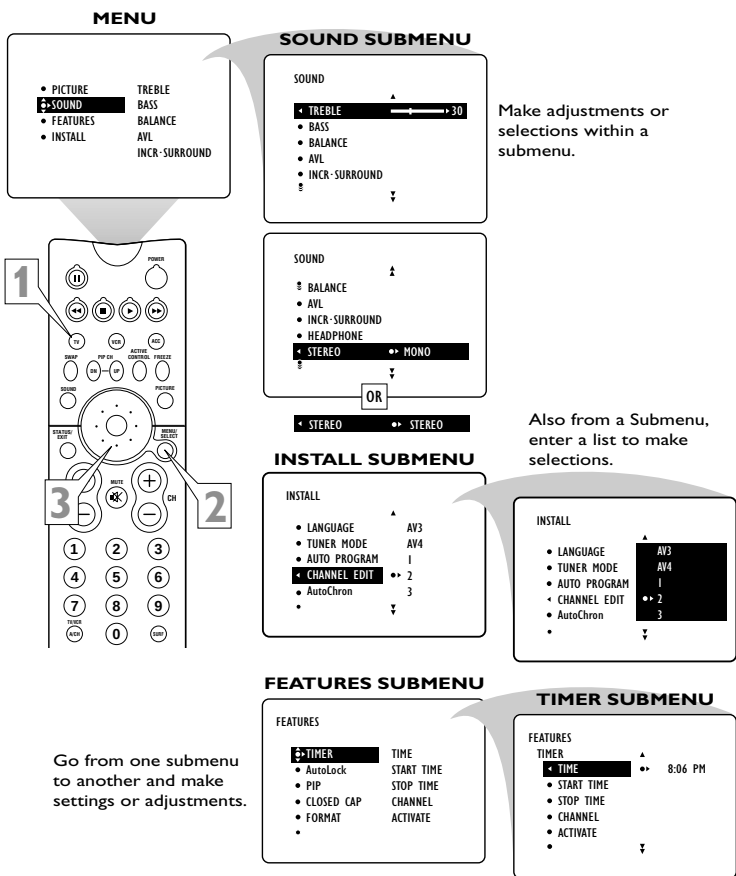
3 Within the submenu, press the CURSOR RING DOWN or UP to highlight an option.

Based on the submenu you are in, you can press the CURSOR RING RIGHT or LEFT to make an adjustment, select a setting, or enter a list or another submenu.

You can return to the submenu from a list by pressing the CURSOR RING LEFT.

To go from a submenu to the previous menu, highlight the option at the top of the screen and press the CURSOR RING UP. You can also press MENU/SELECT to return to the previous menu.

Press STATUS/EXIT to exit the menu.



HELPFUL HINTS

- If you don't press any remote buttons, the menu will automatically disappear after about 20 seconds. To bring the menu back, press MENU/SELECT.
- Sometimes not all the menu items are visible on the screen. If more items exist in the menu, a cursor arrow will appear. Also, a bullet will appear for each remaining item, up to a maximum of three. This will help you determine how many items are left in the menu. Keep pressing the CURSOR RING DOWN until you display all items.
- Should your remote become lost or otherwise unavailable for use, you can use the buttons on the front of the TV to access the on-screen menu and make adjustments or settings. See page 2.

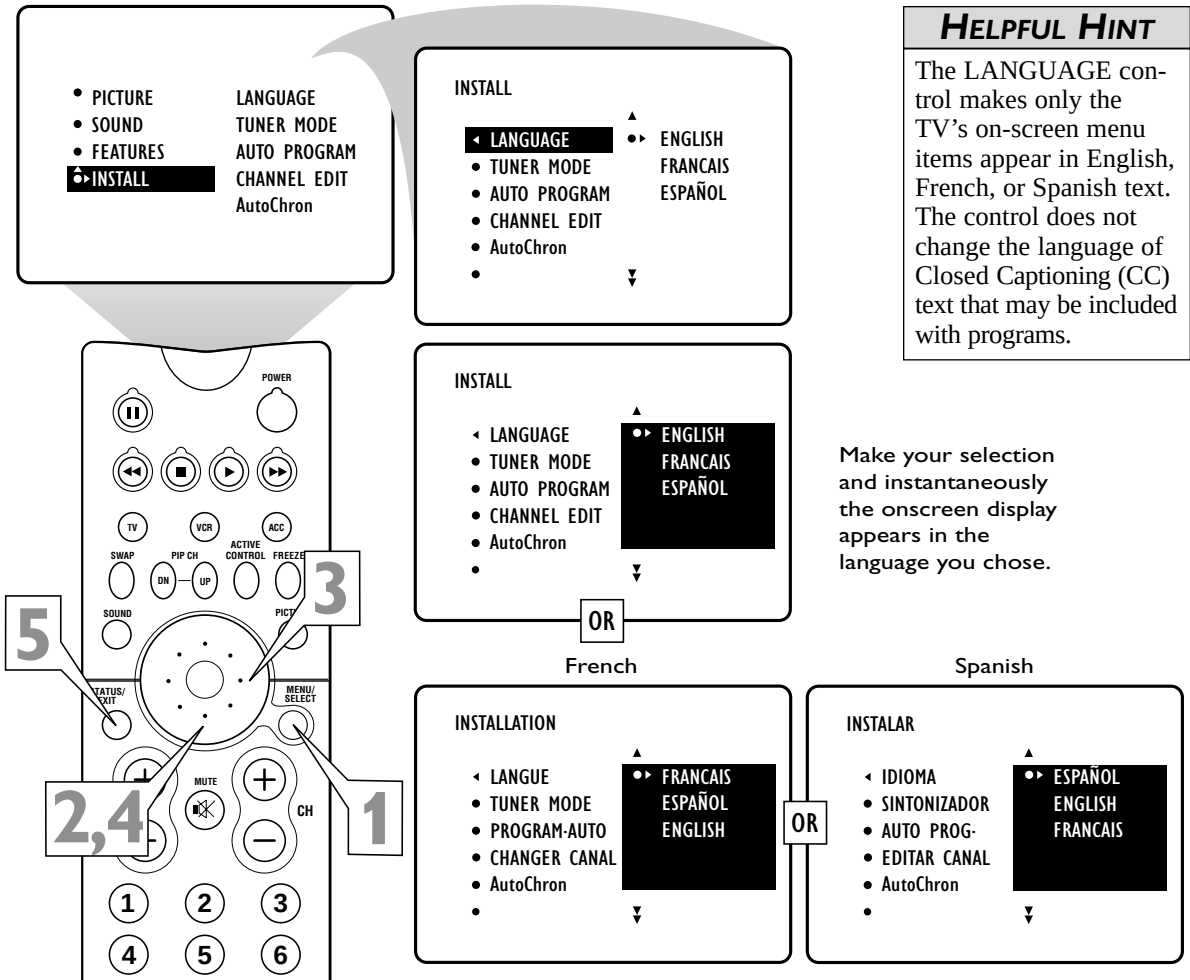


USING THE INSTALLATION FEATURES

LANGUAGE

The menu LANGUAGE control enables you to set the TV's on-screen menu and on-screen displays to be shown in English, French, or Spanish. Follow the steps in this section to set the control.

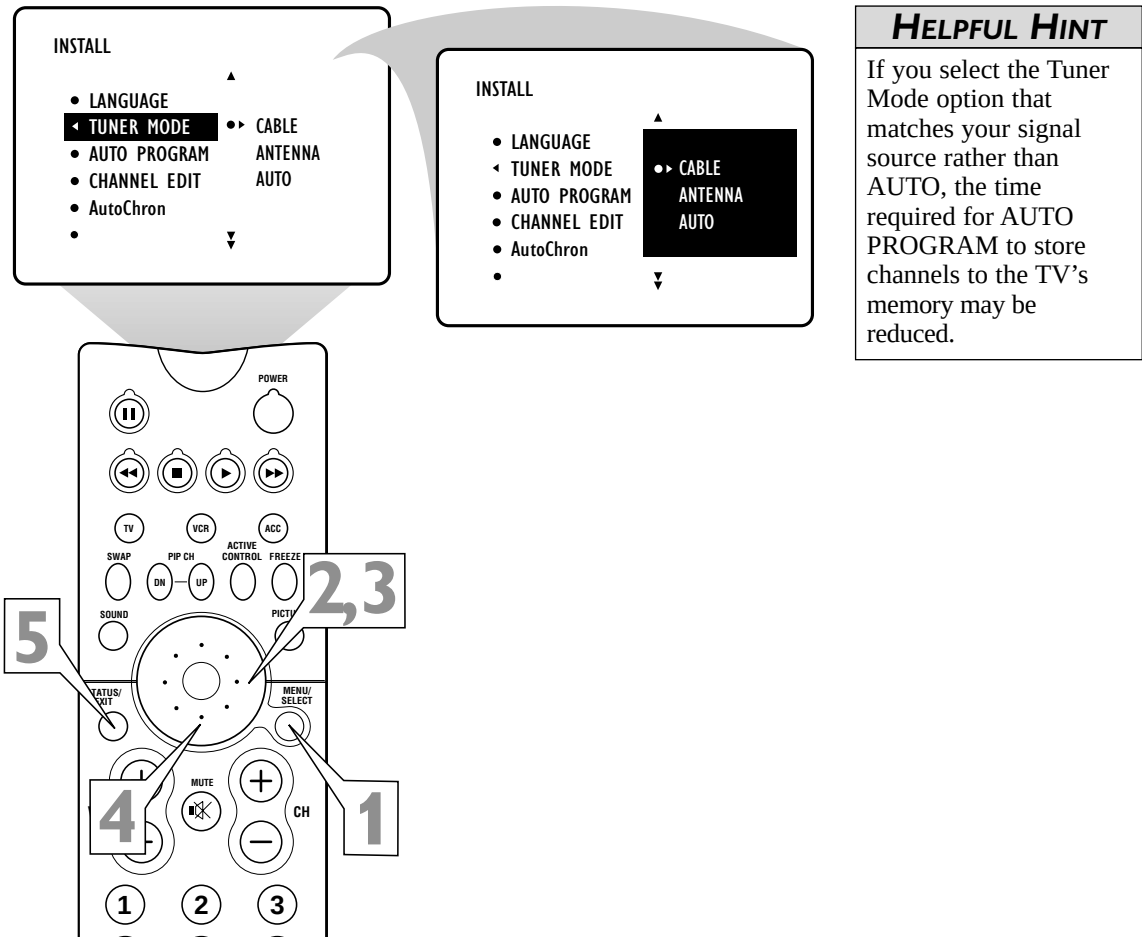
- 1 Press the **MENU/SELECT** button. The on-screen menu appears.
- 2 Press the **CURSOR RING DOWN** repeatedly until **INSTALL** is highlighted. Then press the **CURSOR RING RIGHT** to enter the **INSTALL** submenu.
- 3 Press the **CURSOR RING RIGHT** again to highlight the menu **LANGUAGE** options list.
- 4 Press the **CURSOR RING DOWN** or **UP** to select your menu language.
Instantaneously, the on-screen displays appear in the language that you choose.
- 5 Press the **STATUS/EXIT** button to exit the menus.



TUNER MODE

Set the **TUNER MODE** control according to the type of signal you have connected to the TV—**ANTENNA** or **CABLE**. If you select **AUTO**, the TV will automatically detect the type of signal you have connected.

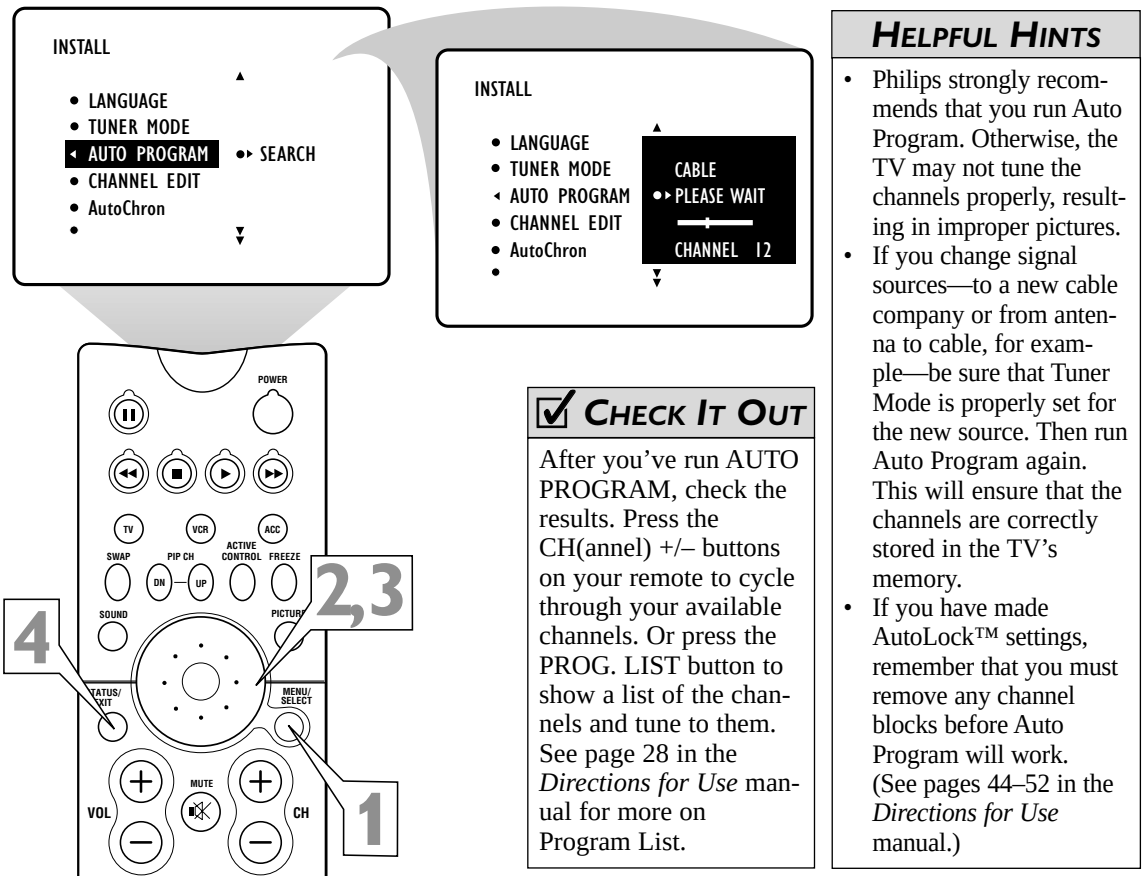
- 1 Press the **MENU/SELECT** button. The on-screen menu appears. Press the **CURSOR RING DOWN** repeatedly until **INSTALL** is highlighted.
- 2 Press the **CURSOR RING RIGHT** to enter the **INSTALL** submenu. Then press the **CURSOR RING DOWN** once to highlight **TUNER MODE**.
- 3 Press the **CURSOR RING RIGHT** to highlight the **TUNER MODE** options list.
- 4 Press the **CURSOR RING DOWN** or **UP** repeatedly until you select the option that matches your signal connection, **CABLE** or **ANTENNA**. If you want the TV to determine the type of signal, select **AUTO**. (You have selected an option when the dot and triangle are next to the option.)
- 5 Press the **STATUS/EXIT** button to exit the menu.
- 6 Proceed to the section on “Auto Program.”



AUTO PROGRAM

The **AUTO PROGRAM** feature will scan for channels with active broadcast signals and store those channels in the TV's memory. It will tune up to 69 channels for antenna, and up to 125 channels for cable. After you run **AUTO PROGRAM**, you can use the **CH(annel) +/-** buttons to quickly and easily select stations. You can also press the **PROG. LIST** (Program List) button on your remote to see a list of the channels.

- 1 Press the **MENU/SELECT** button. The on-screen menu appears. Then press the **CURSOR RING DOWN** repeatedly until **INSTALL** is highlighted.
- 2 Press the **CURSOR RING RIGHT** to enter the **INSTALL** submenu. Then press the **CURSOR RING DOWN** repeatedly until **AUTO PROGRAM** is highlighted.
- 3 Press the **CURSOR RING RIGHT** to begin the automatic search for channels. The progress of autoprogramming is displayed.
- 4 When the programming is done, press the **STATUS EXIT** button to exit the menu.



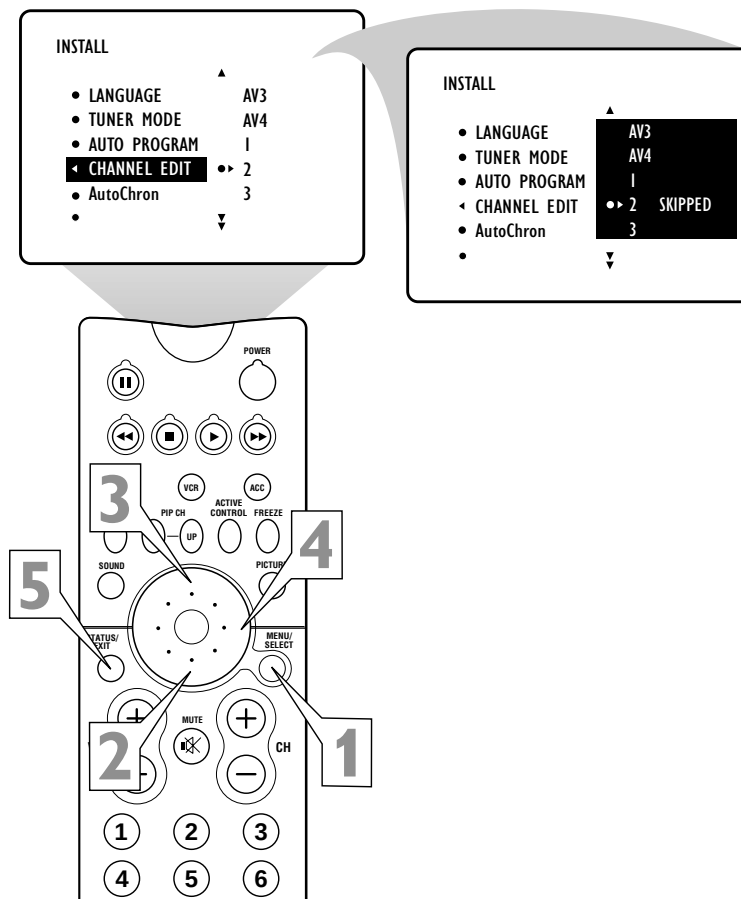
USING THE INSTALLATION FEATURES



CHANNEL EDIT

This feature allows you to edit or skip channels from the channel list that have bad or weak signals or channels you do not want to watch.

- 1 Press the MENU/SELECT button.** The on-screen menu appears. Then press the CURSOR RING DOWN repeatedly until INSTALL is highlighted. Press the CURSOR RING RIGHT to enter the INSTALL submenu.
- 2 Press the CURSOR RING DOWN repeatedly** until CHANNEL EDIT is highlighted. Then press the CURSOR RING RIGHT or LEFT to access the CHANNEL EDIT list.
- 3 Press the CURSOR RING UP or DOWN** to scroll through the list of channels. Or press the NUMBER buttons on your remote control to select a specific channel.
- 4 With the channel you want to edit selected, press the CURSOR RING RIGHT** to mark the channel as SKIPPED. (Channels you mark SKIPPED will not appear when you use the CH[annel] +/- buttons to change channels while watching TV.)
When you want to add a channel that has been marked SKIPPED, press the CURSOR RING UP or DOWN to highlight the channel. Then press the CURSOR RING RIGHT to remove the word SKIPPED.
- 5 Press the STATUS/EXIT button** to exit the menu.



HELPFUL HINT

Channels that Auto Program (see page 4) determined not to contain active broadcast signals are marked SKIPPED.

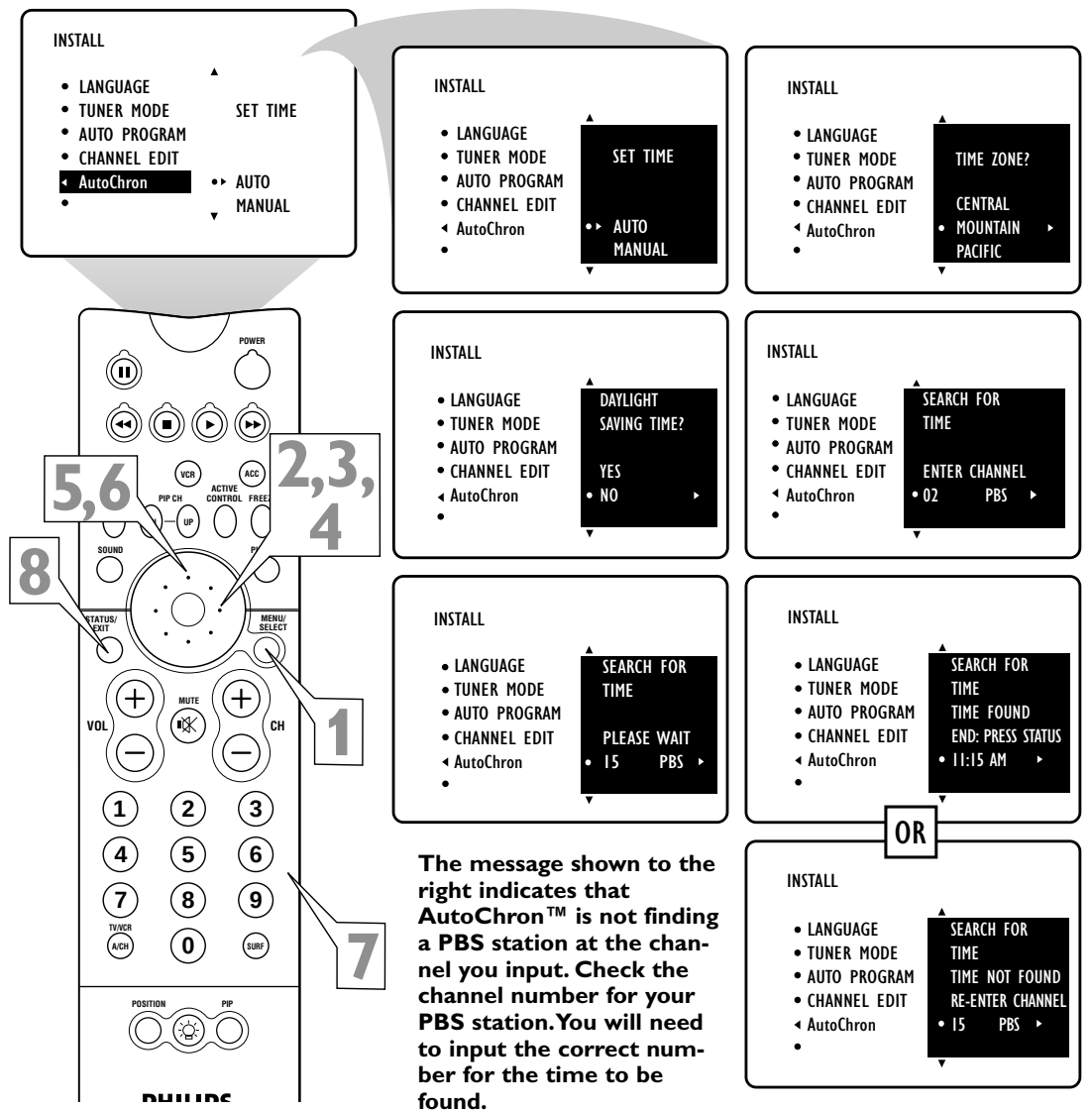
AutoChron™

AutoChron™* gives you the option of setting the time manually or automatically.

SETTING TIME AUTOMATICALLY

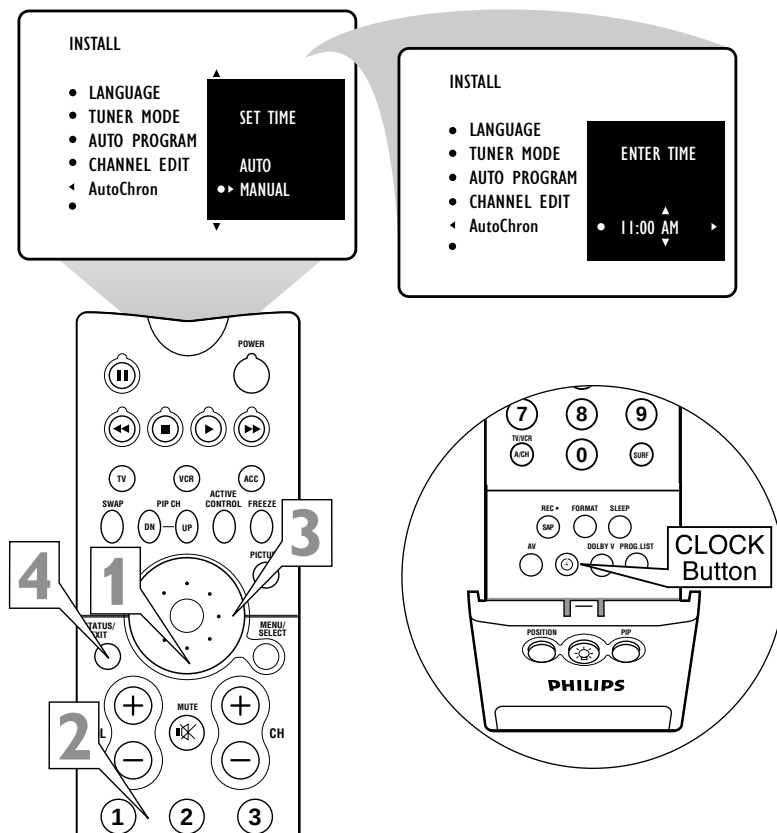
The steps in this section tell you how to set AutoChron™ to download the time from your PBS station to your TV. After successful setup, AutoChron™ will automatically maintain the correct time using your PBS station until you set the time manually.

- 1 Press the MENU/SELECT button.** The on-screen menu appears. Then press the CURSOR RING DOWN repeatedly until INSTALL is highlighted.
- 2 Press the CURSOR RING RIGHT to enter the INSTALL submenu.** Then press the CURSOR RING DOWN repeatedly until AutoChron is highlighted.
- 3 Press the CURSOR RING RIGHT** to enter the AutoChron SET TIME area.
- 4 Press the CURSOR RING RIGHT again** to select AUTO. Within a few seconds, a menu containing the time-zone options appears.
- 5 If necessary, press the CURSOR RING UP or DOWN** to highlight your correct time zone. Then press the CURSOR RING RIGHT. Within a few seconds, the option of Daylight Savings Time appears on screen.
- 6 If the Daylight Savings Time option you want to select is not highlighted, press the CURSOR RING UP or DOWN** to highlight the option. Then press the CURSOR RING RIGHT to activate your selection.
- 7 Press the number buttons** on your remote to enter the channel number for your PBS station (02, 15, or 121, for example). Wait until the TV completes its search. If the time was not found, you will need to locate the correct channel number for your PBS station and input that number.
- 8 Press the STATUS/EXIT button** to exit the menu.



SETTING TIME MANUALLY

- 1 Follow steps 1–3 above, then press the CURSOR RING DOWN** to highlight MANUAL and CURSOR RING RIGHT to enter the MANUAL time input area.
- 2 Use the number buttons on your remote control** to input the first digit for the time. You can also press the CURSOR RING UP or DOWN to select a digit. Press the CURSOR RING RIGHT to move to the next digit input slot and input the time.
If you should need to change a number you have input, you can cursor left or right to the digit input slot to make the correction.
- 3 After you have input the time, press the CURSOR RING RIGHT** to enter the AM/PM area. Then press the CURSOR RING UP or DOWN to select AM or PM.
- 4 Press the STATUS/EXIT button** to exit the menu.



HELPFUL HINTS

- The CLOCK button (⌚) on your remote provides another way in which you can set the TV's clock manually.
- After setting the clock, you will be able to access the time by pressing the STATUS/EXIT button. Or you can view the time constantly in the upper right-hand corner of the screen by turning the DISPLAY control on (see page 40 in the *Directions for Use* manual).

*AutoChron is a trademark of Philips Consumer Electronics North America. Copyright © 2003 Philips Consumer Electronics.

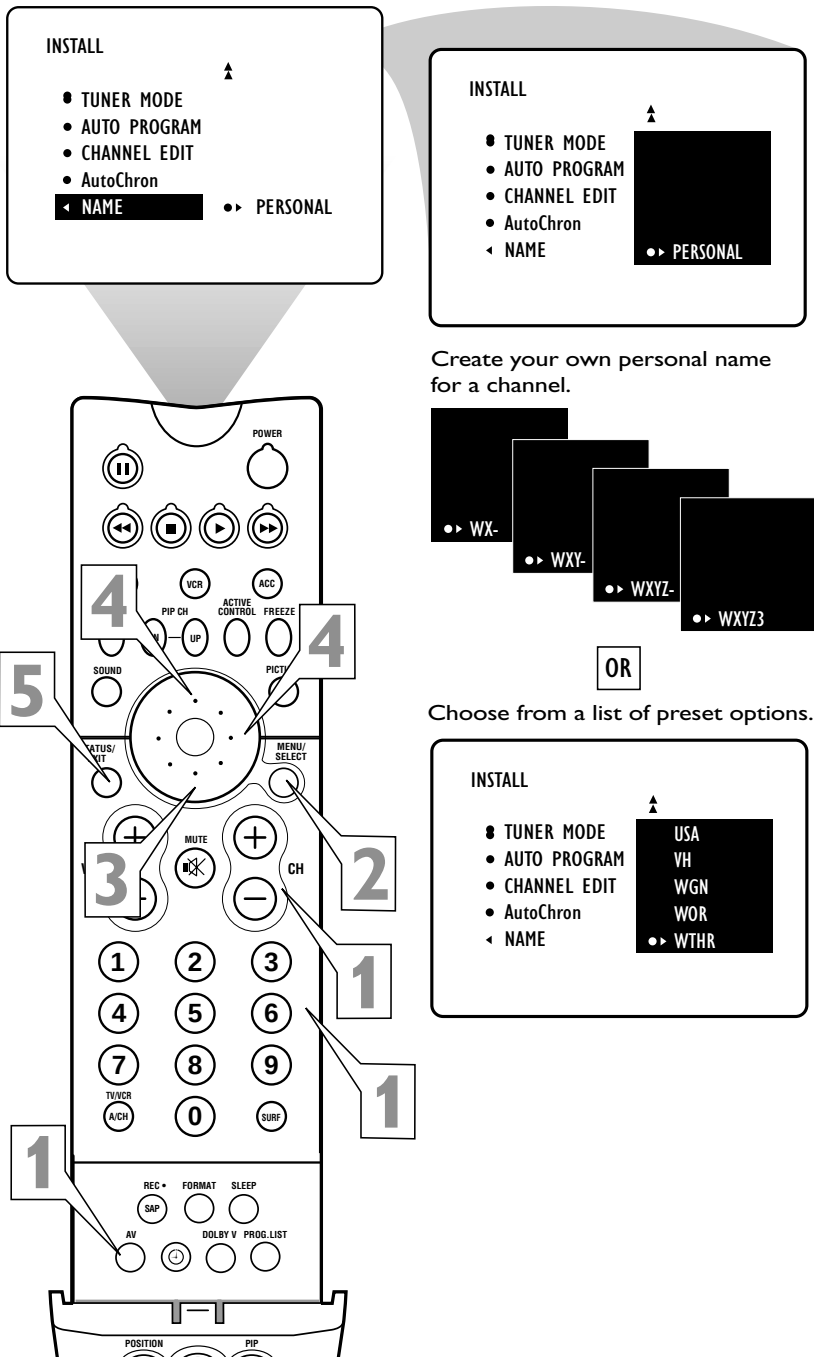


USING THE INSTALLATION FEATURES

NAME

The channel NAME feature allows you to list the call letters of your favorite stations beside their channel numbers when they appear on the screen. The TV has in memory a list of the 50 most popular channel names (NBC, ABC, or FOX, for example). You also can enter a custom name (up to five characters).

- 1 Press the **NUMBER** buttons, the **CH(annel) +/-** buttons, or the **AV** button to select a TV channel or input source to which you want to assign a name or whose name you want to modify.
- 2 Press the **MENU/SELECT** button. The on-screen menu appears. Then press the **CURSOR RING DOWN** repeatedly until **INSTALL** is highlighted. Press the **CURSOR RING RIGHT** to enter the **INSTALL** submenu.
- 3 Press the **CURSOR RING DOWN** repeatedly until the **NAME** control is highlighted. Then press the **CURSOR RING RIGHT** to highlight the **NAME** options area.
- 4 At this point you can choose between options of creating a personal name for the channel or selecting a preset one from a list.
To create your own personal name for the channel or change a personal name you created previously, press the CURSOR RING RIGHT. Then press the **CURSOR RING UP** or **DOWN** to select the first character of the name. You can input up to five characters for the name. When finished, press the **MENU/SELECT** button.
Or
To choose from the list of preset names, press the CURSOR RING UP or DOWN to highlight your choice for the channel name. Press the **CURSOR RING RIGHT** to select the name. Then press the **MENU/SELECT** button.
- 5 Press the **STATUS/EXIT** button to exit the menu.
When you press the **STATUS/EXIT** button when no on-screen display is present or change to the channel you've named, the name will appear on screen next to the channel number or signal source name.



HELPFUL HINTS

- The five **PERSONAL** name characters you can input may be letters, a dash, or the numbers 0 through 9.
- If you begin inputting a personal name or changing an existing one and decide you'd rather select a name from the preset list, press the **MENU/SELECT** button. This will return you to the **INSTALL** submenu, with **NAME** highlighted. Simply press the **CURSOR RING RIGHT** to highlight the **NAME** options area again and choose a preset name as explained in step 4 to the left.



USING THE PICTURE-IN-PICTURE (PIP) FEATURE

MAKING PIP CONNECTIONS

Picture-In-Picture (PIP) is the showing of two pictures on the TV screen at the same time—one main screen picture and one small picture, or PIP. The picture for the PIP window can come from an antenna or cable TV signal, or from AV1, AV2, or AV3. **NOTE:** CVI cannot be displayed in the PIP window, and AV4 and AV5 are not available for use with PIP.

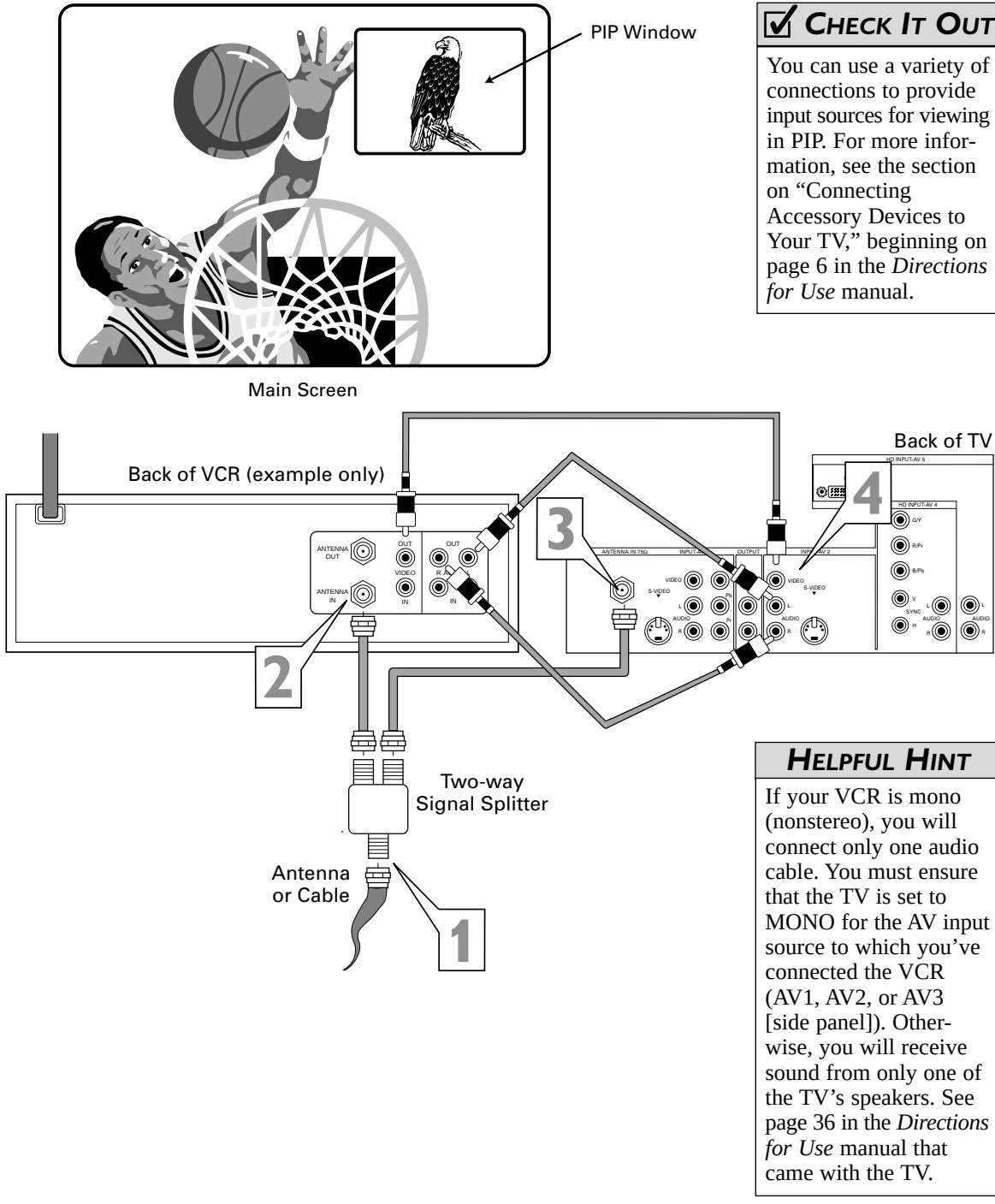
The following connections explained below will allow you to use a VCR as a second tuner specifically for PIP. In other words, you can use the VCR to select channels for viewing in the PIP window. This is just one example of how you can use PIP. Note, too, that you can swap the main and PIP pictures on screen. See page 7 in this publication for information on viewing PIP pictures and using the PIP buttons.

To make the connections shown in this example, you will need:

- a two-way signal splitter
- two coaxial cables (75Ω)
- one cable for a video connection (standard RCA connector)
- two cables for audio connections (standard RCA connectors).

NOTE: The two-way signal splitter and cables are not supplied with your TV. You should be able to buy them at most stores that sell electronics. Or you can call our Customer Care Center at 1-800-531-0039.

- 1 Connect the antenna or cable to a two-way signal splitter.
- 2 Connect a coaxial cable to the two-way signal splitter and to the **ANTENNA IN** jack on the back of the VCR.
- 3 Connect a coaxial cable to the two-way signal splitter and to the **ANTENNA IN 75Ω** jack on the back of the TV.
- 4 Connect A/V cables to the **VIDEO** and **AUDIO OUT** jacks on the back of the VCR and to the corresponding **INPUT-AV 2 VIDEO** and **AUDIO OUT** jacks on the back of the TV.
NOTE: For mono connections use only the L(ef) AUDIO cable (it has a white connector on the end).



CHECK IT OUT

You can use a variety of connections to provide input sources for viewing in PIP. For more information, see the section on “Connecting Accessory Devices to Your TV,” beginning on page 6 in the *Directions for Use* manual.

HELPFUL HINT

If your VCR is mono (nonstereo), you will connect only one audio cable. You must ensure that the TV is set to **MONO** for the AV input source to which you've connected the VCR (AV1, AV2, or AV3 [side panel]). Otherwise, you will receive sound from only one of the TV's speakers. See page 36 in the *Directions for Use* manual that came with the TV.

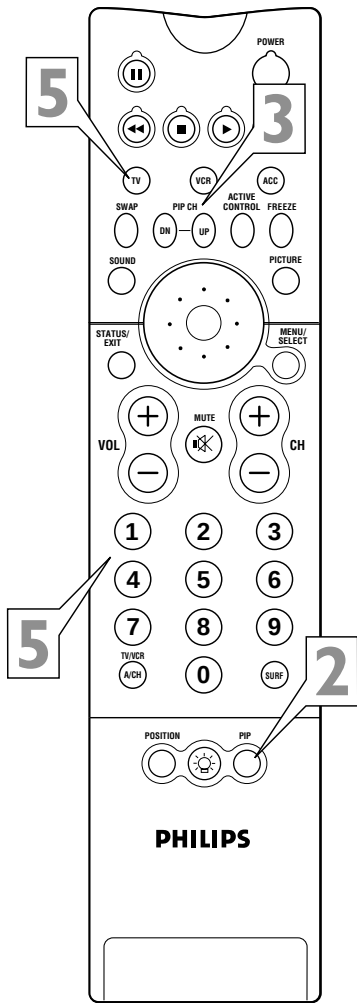
USING THE PICTURE-IN-PICTURE (PIP) FEATURE



VIEWING PICTURES

The steps below take you through the process of using a VCR as a tuner to select channels for viewing in PIP.

- 1 **Turn the VCR and TV on.** Then press the VCR/TV button on the VCR to place the VCR in TV mode.
- 2 **If the PIP window isn't already on the screen, press the PIP on/off button** on the TV remote. The PIP window will show in one of the four corners of the TV screen.
- 3 **Press the PIP CH DN/UP button** until the input source to which you connected the VCR appears in the PIP window. The on-screen display appear briefly to identify the signal source.
- 4 **Select the channel on the VCR** to view in the PIP window. You can select channels on your VCR with your TV remote if the remote is programmed to work with the VCR. You must press the VCR mode button first to send commands to the VCR. (See pages 18–23 in the *Directions for Use* manual.)
- 5 **Press the TV button on your TV remote and select the channel** on your TV that you want to watch on the main screen.
- 6 **Go to the next section** to familiarize yourself with the functions of the PIP buttons.

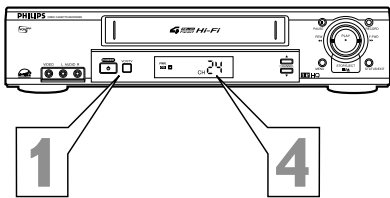


HELPFUL HINT

If you use your TV remote to operate the VCR, be sure the TV remote is in the correct mode when you switch back and forth between VCR and TV.

WARNING

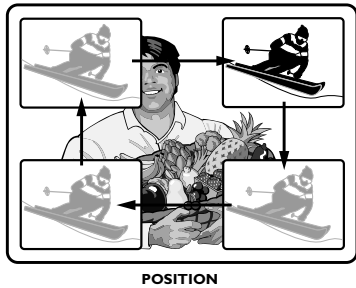
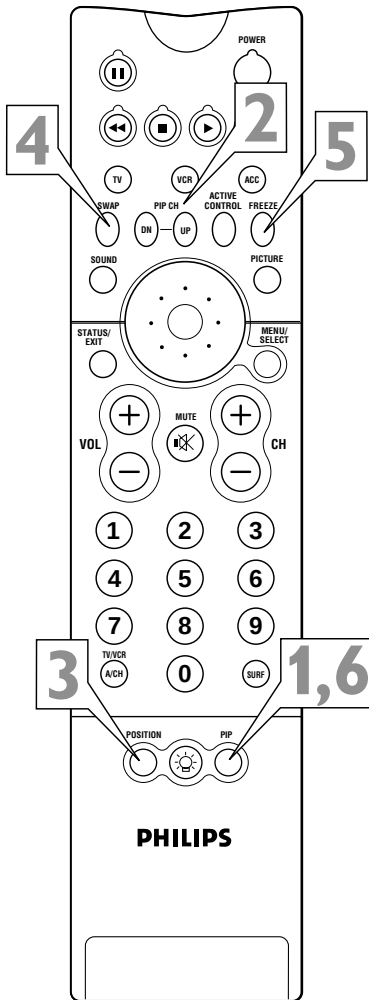
Be careful not to leave the PIP window on the screen continuously for an extended period time. Doing so day after day for a couple of hours or more may cause picture tube damage.



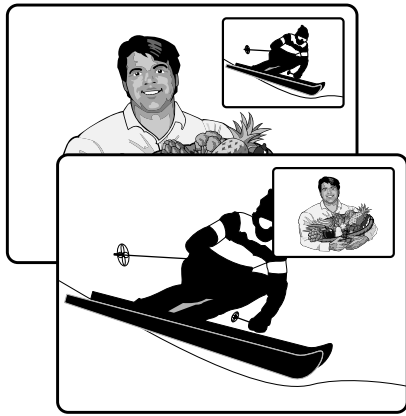
USING THE PIP BUTTONS

Using the PIP buttons on the remote, you can move the PIP window around and swap it with the main screen. You can also freeze the PIP window picture.

- 1 **Press the PIP on/off button** to show the PIP window. PIP appears in a corner of the TV screen. Press the PIP on/off again to reduce the PIP window size, and a third time to remove the PIP window from the screen. Press the PIP on/off button again to show the PIP window.
- 2 **Press the PIP CH DN/UP buttons** to access a signal source in the PIP window.
- 3 **Press the PIP POSITION button** to move the PIP window from corner to corner on the TV screen. This feature allows you to move PIP and avoid blocking any main-screen action.
- 4 With PIP on the TV screen, **press the SWAP button** to swap the main and PIP pictures. Press SWAP again to swap the pictures back.
- 5 **Press the FREEZE button** to stop motion within the PIP window. Stopping motion will allow you to write down on-screen phone numbers or addresses.
- 6 **Press the PIP on/off button**, multiple times if necessary, to remove the PIP window from the screen.



POSITION



SWAP



FREEZE

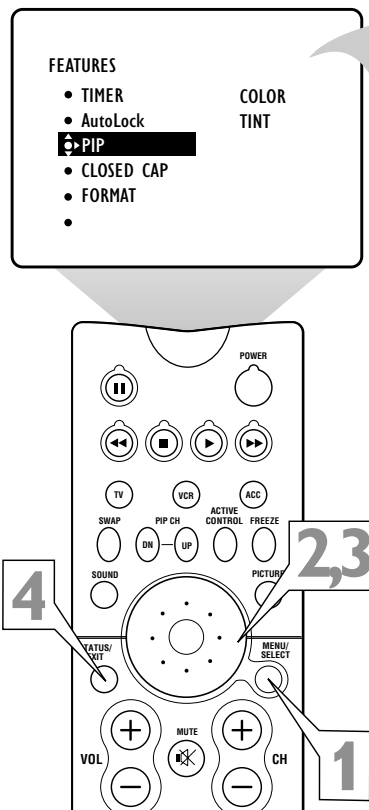
HELPFUL HINT

When you press the PIP on/off button to show the PIP window, the window will appear where it was located the last time it was displayed.

ADJUSTING COLOR AND TINT

The Picture-in-Picture (PIP) COLOR and TINT controls allow you to make fine-tune adjustments to the PIP picture settings.

- 1 **Press the MENU/SELECT button.** The on-screen menu appears. Then press the CURSOR RING DOWN twice to highlight FEATURES.
- 2 **Press the CURSOR RING RIGHT** to enter the FEATURES submenu. Then press the CURSOR RING DOWN repeatedly until the PIP item is highlighted in the submenu. Press the CURSOR RING RIGHT to enter the PIP submenu.
- 3 **Press the CURSOR RING RIGHT or LEFT** to adjust the COLOR to the desired level. Then press the CURSOR RING DOWN to highlight the TINT adjustment bar. Press the CURSOR RING RIGHT or LEFT to adjust the TINT bar to the desired level.
- 4 **Press the STATUS/EXIT button** to exit the menu.



FEATURES

- TIMER
- AutoLock
- PIP
- CLOSED CAP
- FORMAT
-

COLOR TINT

FEATURES

PIP

• COLOR

• TINT

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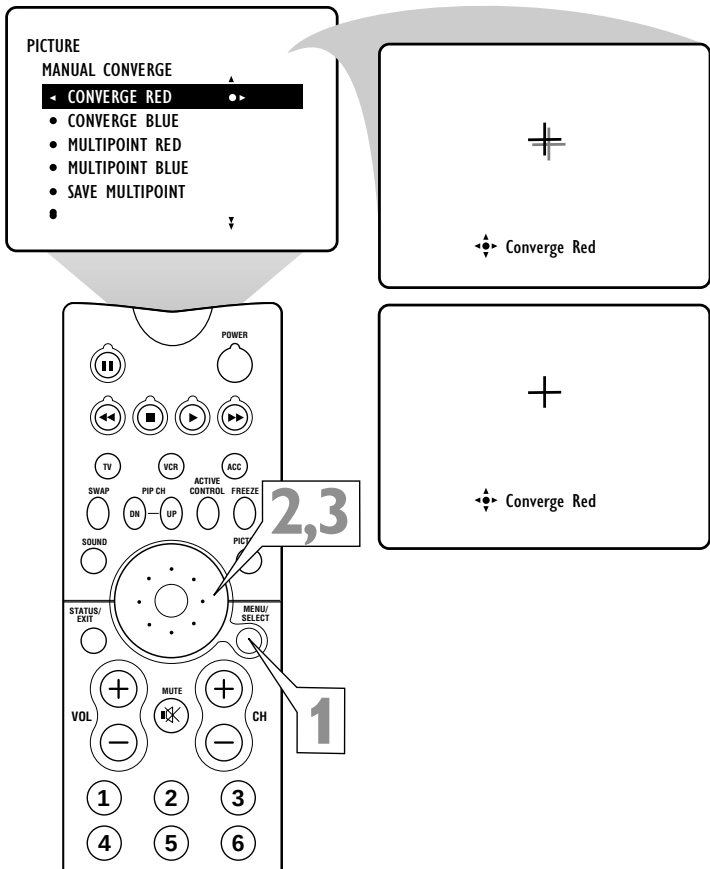
ADJUSTING THE MANUAL CONVERGE CONTROLS

CONVERGE RED/BLUE

Bumps and vibrations, moving the set, or the presence of magnetic Bfields (from speakers, for example) can cause the beams of light coming from the TV's three color projection tubes to become misaligned. The result is color haloes, or outlines, around portions of the picture. If your picture looks okay, there's no need to adjust convergence. If your TV's picture has the color haloes, however, refer to the chart to the right for guidance as to which convergence controls to use, then follow the simple steps below.

- 1 Press the MENU/SELECT button.** The menu appears. Press the CURSOR RING RIGHT to enter the PICTURE submenu. Then press the CURSOR RING DOWN until MANUAL CONVERGE is highlighted.
- 2 Press the CURSOR RING RIGHT** to enter the MANUAL CONVERGE submenu. If you want to adjust the Red Convergence, press the CURSOR RING RIGHT to enter the adjust mode. If you want to adjust the Blue Convergence, press the CURSOR RING DOWN to highlight CONVERGE BLUE, then press the CURSOR RING RIGHT to enter adjust mode.
- 3 In adjust mode, press the CURSOR RING RIGHT, LEFT, UP, or DOWN** to adjust the cross hair until the color haloe around it is gone. (The adjustment is automatically saved in the TV's memory.) To return to the MANUAL CONVERGE menu, press the MENU/SELECT button. To exit the on-screen display, press the STATUS/EXIT button.

Screen Appearance	Actions
Various parts of the picture have red haloes.	Adjust the CONVERGE RED control. Then if any red haloes remain, adjust the MULTI-POINT RED control.
Various parts of the picture have blue haloes.	Adjust the CONVERGE BLUE control. Then if any blue haloes remain, adjust the MULTI-POINT BLUE control.



MULTIPOINT RED/BLUE

The Multipoint Red/Blue Convergence controls enable you to adjust the convergence at specific points on the TV screen.

NOTE: The on-screen display will leave the screen after 20 seconds of inactivity. If this happens, simply press the MENU/SELECT button to bring the MANUAL CONVERGE submenu back.

- 1 Press the MENU/SELECT button.** The menu appears. Press the CURSOR RING RIGHT to enter the PICTURE menu. Then press the CURSOR RING DOWN until MANUAL CONVERGE is highlighted.
- 2 Press the CURSOR RING RIGHT** to enter the MANUAL CONVERGE submenu. Press the CURSOR RING DOWN until MULTIPOINT RED or MULTIPOINT BLUE is highlighted. Then press the CURSOR RING LEFT or RIGHT to enter Navigate mode.
- 3 Press the CURSOR RING LEFT, RIGHT, UP, or DOWN** to move to a cross hair that has a color haloe. Then press the STATUS/EXIT button to enter adjust mode.
- 4 Press the CURSOR RING LEFT, RIGHT, UP, or DOWN** to adjust the cross hair image until the color haloe is gone. Then press the STATUS/EXIT button to return to NAVIGATE mode. Repeat steps 3 and 4 until all misaligned cross images have been adjusted.
- 5 After making your adjustments, you must store them in the TV's memory using SAVE MULTIPOINT.**

NOTE: If you are not satisfied with the adjustments you just made and want to start over, you can use the UNDO MULTIPOINT control. This control allows you to undo the adjustments, but it will work only if you use it before saving.

To save your multipoint adjustments, press the MENU/SELECT button. This returns you to the MANUAL CONVERGE menu. Press the CURSOR RING DOWN until SAVE MULTIPOINT is highlighted. Then press the CURSOR RING LEFT or RIGHT to store your adjustments in the TV's memory.

OR

To undo the multipoint adjustments you just made, press the MENU/SELECT button. This returns you to the MANUAL CONVERGE menu. Press the CURSOR RING DOWN until UNDO MULTIPOINT is highlighted. Press the CURSOR RING UP until MULTIPOINT RED or MULTIPOINT BLUE is highlighted. Press the CURSOR RING LEFT or RIGHT to enter Navigate mode. Then Follow steps 3–5 above to make your adjustments again.

OR

To restore the TV's convergence to factory settings, press the MENU/SELECT button. This returns you to the MANUAL CONVERGE menu. Press the CURSOR RING DOWN until RESTORE FACTORY is highlighted. Then press the CURSOR RING LEFT or RIGHT to restore the TV's convergence to factory settings.

- 6 Press the STATUS/EXIT button** to exit the submenu.

